

IN THE CLAIMS

1. (currently amended) A method of transferring a message between a plurality of nodes forming a ring, comprising the steps of:

generating a message containing

a value specifying one of a short path and a long path, and

~~an~~ one or more identifiers identifying only a source node of said message when the path for said message is a short path; ~~generating a message containing a value specifying a long path and an identifier~~ and identifying only a destination node of said message when the path for said message is a long path; and

transmitting said generated message.

2. (currently amended) A method according to claim 1, wherein said message consists of K1/K2 bytes, and said ~~source node identifier and said destination node identifier~~ are both one or more identifiers for identifying said one of source node and destination node is 8 bits long.

3. (withdrawn) A method of transferring a message between a plurality of nodes forming a ring, wherein each pair of adjacent nodes forms a group and any two adjacent nodes have node identifiers different from each other, said method comprising the steps of:

generating a message containing a group identifier identifying the group to which a destination node of said message belongs, a group identifier identifying the group to which a source node of said message belongs, and a node identifier identifying said destination node of said message; and

transmitting said generated message.

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4. (withdrawn) A method according to claim 3, wherein said message consists of K1/K2 bytes, and said destination node identifier is one bit long.

5. (original) A method of transferring a message between a plurality of nodes forming a ring, wherein a first node identifier and a second node identifier are assigned to each node, and each node is uniquely identified by a combination of the first node identifier assigned to said node and two second node identifiers respectively assigned to two nodes adjacent on both sides thereof, said method comprising the steps of:

generating a message containing one of the first and second node identifiers assigned to a destination node of said message, the other one of the first and second node identifiers assigned to a source node of said message, and a value specifying a short path or a long path; and transmitting said generated message.

6. (original) A method according to claim 5, wherein said message consists of K1/K2 bytes.

7. (currently amended) An apparatus for transferring a message between a plurality of nodes forming a ring, comprising:

means for generating a message containing

a value specifying one of a short path and a long path and

an one or more identifiers identifying only a source node of said message when

the path for said message is a short path; ~~means for generating a message containing a value~~

~~specifying a long path and an identifier~~ and identifying only a destination node of said message
when the path for said message is a long path; and
means for transmitting said generated message.

8. (currently amended) An apparatus according to claim 7, wherein said message consists of K1/K2 bytes, and said ~~source node identifier and said destination node identifier are both one or more identifiers for identifying said one of source node and destination node is~~ 8 bits long.

9. (withdrawn) An apparatus for transferring a message between a plurality of nodes forming a ring, wherein each pair of adjacent nodes forms a group and any two adjacent nodes have node identifiers different from each other, said apparatus comprising:

means for generating a message containing a group identifier identifying the group to which a destination node of said message belongs, a group identifier identifying the group to which a source node of said message belongs, and a node identifier identifying said destination node of said message; and

means for transmitting said generated message.

10. (withdrawn) An apparatus according to claim 9, wherein said message consists of K1/K2 bytes, and said destination node identifier is one bit long.

11. (original) An apparatus for transferring a message between a plurality of nodes forming a ring, wherein a first node identifier and a second node identifier are assigned to each

node, and each node is uniquely identified by a combination of the first node identifier assigned to said node and two second node identifiers respectively assigned to two nodes adjacent on both sides thereof, said apparatus comprising:

means for generating a message containing one of the first and second node identifiers assigned to a destination node of said message, the other one of the first and second node identifiers assigned to a source node of said message, and a value specifying a short path or a long path; and

means for transmitting said generated message.

12. (original) An apparatus according to claim 11, wherein said message consists of K1/K2 bytes.